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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

1-18. (Cancelled).

19. (Original) A primary lithium battery comprising:

a cathode including an irreversible high capacity material and a reversible low capacity material;

an anode including lithium; and a separator between the cathode and the anode.

- 20. (Original) The battery of claim 18, wherein the reversible low capacity material includes a lithiated manganese dioxide.
- 21. (Original) The battery of claim 19, wherein the lithiated manganese dioxide includes an electrolytic manganese dioxide or a chemical manganese dioxide.
- 22. (Currently Amended). The battery of claim [[19]]20, wherein the battery delivers a capacity at least 40% greater than the sum of the expected capacities of the lithiated manganese dioxide and the irreversible high capacity material under high drain conditions.
- 23. (Currently Amended) The battery of claim [[19]]20, wherein the irreversible high capacity material includes a carbon fluoride.
- 24. (Original) The battery of claim 19, wherein the irreversible high capacity material includes a carbon fluoride.
- 25. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are blended.

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26. (Original) The battery of claim 23, wherein the carbon fluoride is CF<sub>x</sub>.

- 27. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 1:99 to 99:1 by weight.
- 28. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 5:95 to 95:5 by weight.
- 29. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 25:75 to 75:25 by weight.
- 30. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 20:80 to 80:20 by weight.
- 31. (Original) The battery of claim 23, further comprising an electrolyte including an organic solvent.
- 32. (Original) The battery of claim 23, wherein the lithiated manganese dioxide includes a low surface area lithiated manganese dioxide.
- 33. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide has a specific surface area between 0.50 and  $20.0 \text{ m}^2/\text{g}$ .
- 34. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide has a specific surface area between 10.0 and 15.0 m<sup>2</sup>/g.
- 35. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide, when mixed with an electrolyte including an organic solvent and a lithium salt, produces a gas pressure of no more than 16 PSI after 100 hours at 70 °C.

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36. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 1:99 to 99:1 by weight.

- 37. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 5:95 to 95:5 by weight.
- 38. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 25:75 to 75:25 by weight.
- 39. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 20:80 to 80:20 by weight.
- 40. (Original) The battery of claim 30, further comprising an electrolyte including an organic solvent.
- 41. (Original) A primary lithium battery comprising: a cathode including a low surface area lithiated manganese dioxide; an anode including lithium; and
  - a separator between the cathode and the anode.
- 42. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide has a specific surface area between 0.50 and 20.0 m<sup>2</sup>/g.
- 43. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide has a specific surface area between 10.0 and 15.0 m<sup>2</sup>/g.
- 44. (Original) The battery of claim 38, further comprising an electrolyte including an organic solvent.

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45. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide, when mixed with an electrolyte including an organic solvent and a lithium salt, produces a gas pressure of no more than 16 PSI after 100 hours at 70 °C.

46-60. (Cancelled).